

Senate Bill 1
South Central Texas RWPG
Staff Workgroup Meeting
July 18, 2013 at 9:00 a.m.

- 1) Region L Carrizo WMS and Eagle Ford Shale Work Group Updates
- 2) Discussion of HB 4
- 3) Status of Technical Consultants Work and Schedule
 - a. Schedule and Budget Update
 - b. Review requested revisions to draft population and water demand projections, including EFS Work Group final recommendation for submittal to TWDB
 - c. Update on results from existing supply analyses (surface water, groundwater, and reuse water) for WUGs and WWP
 - d. Updated draft needs analyses, based on the draft water demand projections and existing supply analyses for WUGs and WWP
 - e. Review updated draft WMSs by WUG/WWP, to be included in Phase 2 of the survey
 - f. Review of draft scopes and budgets for 12 WMS:
 - Wells Ranch – Phase 2 (CRWA and Others)
 - Brackish Wilcox for the RWA (CRWA and Others)
 - Hays/Caldwell PUA – Phases 1 & 2 (San Marcos, Buda, Kyle, CRWA)
 - CRWA Siesta Project (CRWA)
 - Brackish Wilcox for SAWS
 - Expanded Local Carrizo – Bexar County (SAWS)
 - Brackish-Wilcox, Gonzales County (SSLGC)
 - Texas Water Alliance Carrizo Well Field, Gonzales County (TWA)
 - Carrizo Aquifer, Wilson County (Cibolo Valley Local Government Corp)
 - GBRA Mid-Basin Project and Alternatives (GBRA)
 - GBRA Lower Basin Off-Channel Reservoir (GBRA)

GBRA Lower Basin New Appropriation (GBRA)

- f. Review list of potentially feasible water management strategies for authorization to begin draft scopes of work and budget at August meeting
- 4) Review Agenda for August 1, 2013 Planning Group Meeting
- 5) Other

AGENDA ITEM 1

Region L Carrizo WMS and Eagle Ford Shale Work Group Updates

To: Eagle Ford Shale Workgroup	
From: Brian Perkins, P.E.	Project: Water Demands
Date: June 14, 2013	Job No: 167424

**RE: Revised Water Demand Projections Considering
The UTSA Population Study**

This Technical Memorandum is released by R Brian Perkins, P.E. No. 94602, and HDR Engineering, Inc., 8404 Indian Hills Dr., Omaha, NE 68114, Registration No. F-754.

1. Introduction

Following the conclusion of the University of Texas – San Antonio (UTSA) Eagle Ford Shale study, there were still questions about how the results of the study affect regional planning. The purpose of this technical memorandum is to put the population project results from the UTSA study in context with the Texas Water Development Board (TWDB) draft population projections, and to analyze the affect potential revisions to population projections may have on water demands projections.

2. Population Projections Comparisons

A comparison of the five population projections generated by UTSA with the TWDB population projections and the other two State Demographer’s population projections (0.0 Migration Scenario and 1.0 Migration Scenario) was made for eight counties which the UTSA study identified as being potentially affected by the Eagle Ford Shale population boom. Graphical representations of these comparisons can be found in Appendix A. In some counties, Housing Unit data was not available to UTSA researchers, therefore population projections based on Housing Unit data could not be made. It is noted that TWDB and State Demographer population projections only account for permanent residents within each county. Population projections made by UTSA attempt to account for permanent residents as well as transient, short-term residents/workers that often live in hotels, campgrounds, and man camps for extended periods of time.

3. Water Demand Projections Comparisons

In regional water planning, the municipal water demands set by population projections and base year per capita water use (gpcd) is what the regional water planning group uses to develop the regional water plan. Population projections (especially those that are decades away) and per capita water use data are not perfect, but merely the best estimated data used to develop that water demand. Given that TWDB uses population projections based on permanent residents only and 2011 as the base year for the per capita water use, it’s possible that even though the population projections don’t account for short-term residents/workers,

the water demands associated with everyone in the county are accounted for in the per capita water use data. To analyze this, comparisons were made between two sets of water demand projections:

1. TWDB Draft Water Demand Projections, comprised of TWDB Draft Population Projections and using 2011 reported water use as the base year per capita water use; and
2. Potentially Revised Water Demand Projections, comprised of population projections developed by UTSA and using 2006 reported water use as the base year per capita water use.

Please note that 2006 reported water use was selected because 2006 was a dry year and is prior to when the recent Eagle Ford Shale activity began in 2008. Graphical summaries of these comparisons are in Appendix B.

Potential revised water demand projections were then developed using the greater of the water demand projections based on the UTSA – Labor (Historic), UTSA – Student Enrollment (Historic), and the UTSA – Housing Unit projections. The revised water demand projections used the Year 2020 per capita water use (gpcd) as the base, and reduced the per capita water use for future decades at the same rate/percentages as the TWDB per capita water use amounts were reduced. The TWDB population projection, TWDB water demand projections, potential revised water demand projections, and associated per capita water uses are shown in Table 1.

4. Recommendation

It is recommended that the South Central Texas Regional Planning Group asks TWDB to revise the associated water demand projections in seven of the eight counties (excluding Victoria County) included in Table 1 (highlighted). Revision of the water demand projections will account for the transient, short-term residents/workers that aren't included in the TWDB population projections, without revising the population projections and making it necessary to offset the population projection increases in these counties by lowering the population projections in other counties within Region L.

Table 1. Water Demand Projection Comparison

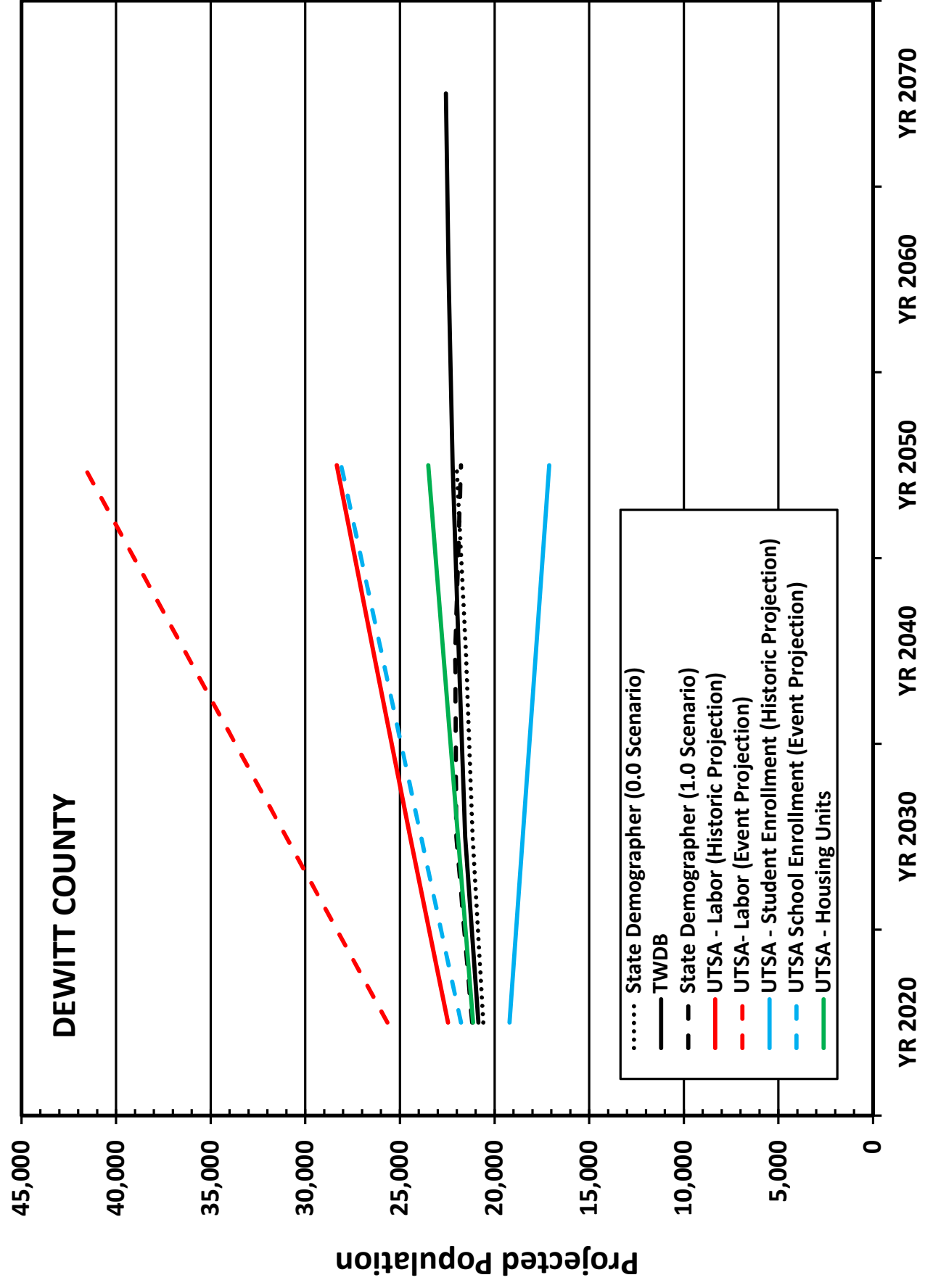
	Draft TWDB Projections					Potential Revised Projections					Difference					
	YR2020	YR2030	YR2040	YR2050	YR2020	YR2030	YR2040	YR2050	YR2020	YR2030	YR2040	YR2050	YR2020	YR2030	YR2040	YR2050
DeWitt	TWDB Population (# of people)	20,855	21,555	21,900	22,216	20,855	21,555	21,900	22,216	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	3,980	4,014	3,999	4,016											
	EFS Study Water Demand* (acft/yr)					4,642	4,681	4,664	4,684							
	Resulting Per Capita Water Use* (gpcd)	170	166	163	161	199	194	190	188	662	667	665	665	28	28	27
Dimmit	TWDB Population (# of people)	10,875	11,725	12,275	12,825	10,875	11,725	12,275	12,825	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	2,367	2,496	2,574	2,676											
	EFS Study Water Demand* (acft/yr)					3,396	3,581	3,693	3,839	1,029	1,085	1,119	1,119	84	83	81
	Resulting Per Capita Water Use* (gpcd)	194	190	187	186	279	273	269	267	84	83	81	81	84	83	81
Goliad	TWDB Population (# of people)	8,427	9,519	10,239	10,545	8,427	9,519	10,239	10,545	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	1,206	1,320	1,391	1,418											
	EFS Study Water Demand* (acft/yr)					1,646	1,802	1,899	1,935	440	482	508	517	440	482	508
	Resulting Per Capita Water Use* (gpcd)	128	124	121	120	174	169	166	164	47	45	44	44	47	45	44
Gonzales	TWDB Population (# of people)	21,751	23,921	25,963	28,330	21,751	23,921	25,963	28,330	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	4,767	5,133	5,505	5,968											
	EFS Study Water Demand* (acft/yr)					5,322	5,730	6,146	6,663	555	597	641	695	555	597	641
	Resulting Per Capita Water Use* (gpcd)	196	192	189	188	218	214	211	210	23	22	22	22	23	22	22
Karnes	TWDB Population (# of people)	15,456	15,938	15,968	15,968	15,456	15,938	15,968	15,968	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	3,497	3,537	3,494	3,473											
	EFS Study Water Demand** (acft/yr)					3,675	3,717	3,672	3,650	178	180	178	177	178	180	178
	Resulting Per Capita Water Use* (gpcd)	202	198	195	194	212	208	205	204	10	10	10	10	10	10	10
La Salle	TWDB Population (# of people)	7,776	8,517	9,209	9,987	7,776	8,517	9,209	9,987	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	1,770	1,902	2,030	2,188											
	EFS Study Water Demand* (acft/yr)					2,604	2,799	2,987	3,219	834	897	957	1,031	834	897	957
	Resulting Per Capita Water Use* (gpcd)	203	199	197	196	299	293	290	288	96	94	93	92	96	94	93
Refugio	TWDB Population (# of people)	7,687	7,929	7,985	8,119	7,687	7,929	7,985	8,119	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	1,202	1,201	1,178	1,189											
	EFS Study Water Demand* (acft/yr)					1,682	1,681	1,649	1,664	480	480	471	475	480	480	471
	Resulting Per Capita Water Use* (gpcd)	140	135	132	131	195	189	184	183	56	54	53	52	56	54	53
Victoria	TWDB Population (# of people)	93,857	100,260	105,298	109,785	93,857	100,260	105,298	109,785	NA	NA	NA	NA	NA	NA	NA
	TWDB Water Demand (acft/yr)	20,160	21,089	21,805	22,552											
	EFS Study Water Demand* (acft/yr)					17,188	18,381	19,576	20,771	-2,972	-2,708	-2,229	-1,781	-2,972	-2,708	-2,229
	Resulting Per Capita Water Use* (gpcd)	192	188	185	183	163	160	158	156	-28	-28	-27	-27	-28	-28	-27

* Based on UTSA - Labor (Historic) Projection for Population and 2006 Per Capita Water Use

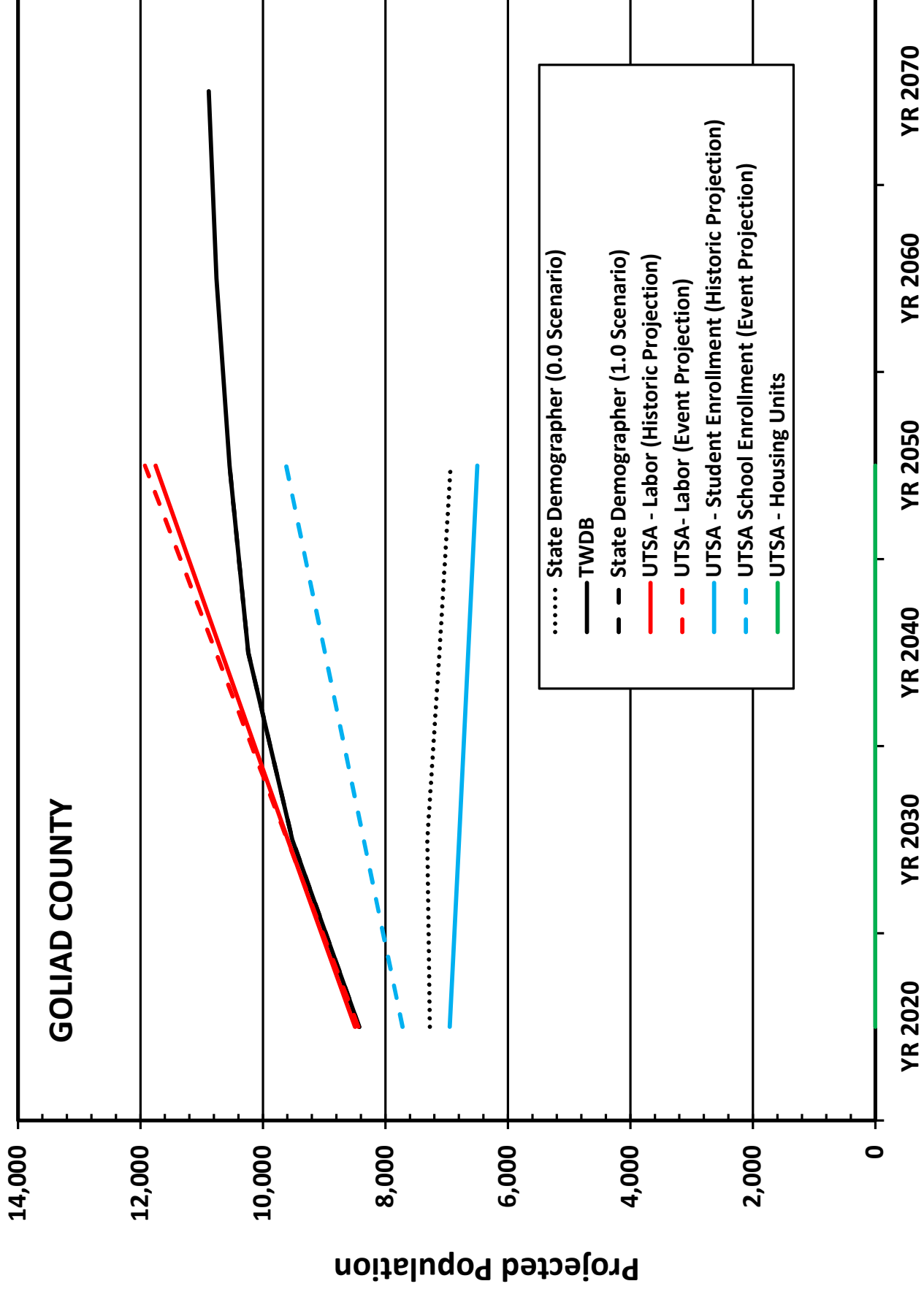
** Based on UTSA - Housing Units Projection for Population and 2006 Per Capita Water Use

Appendix A
Population Projection Comparisons

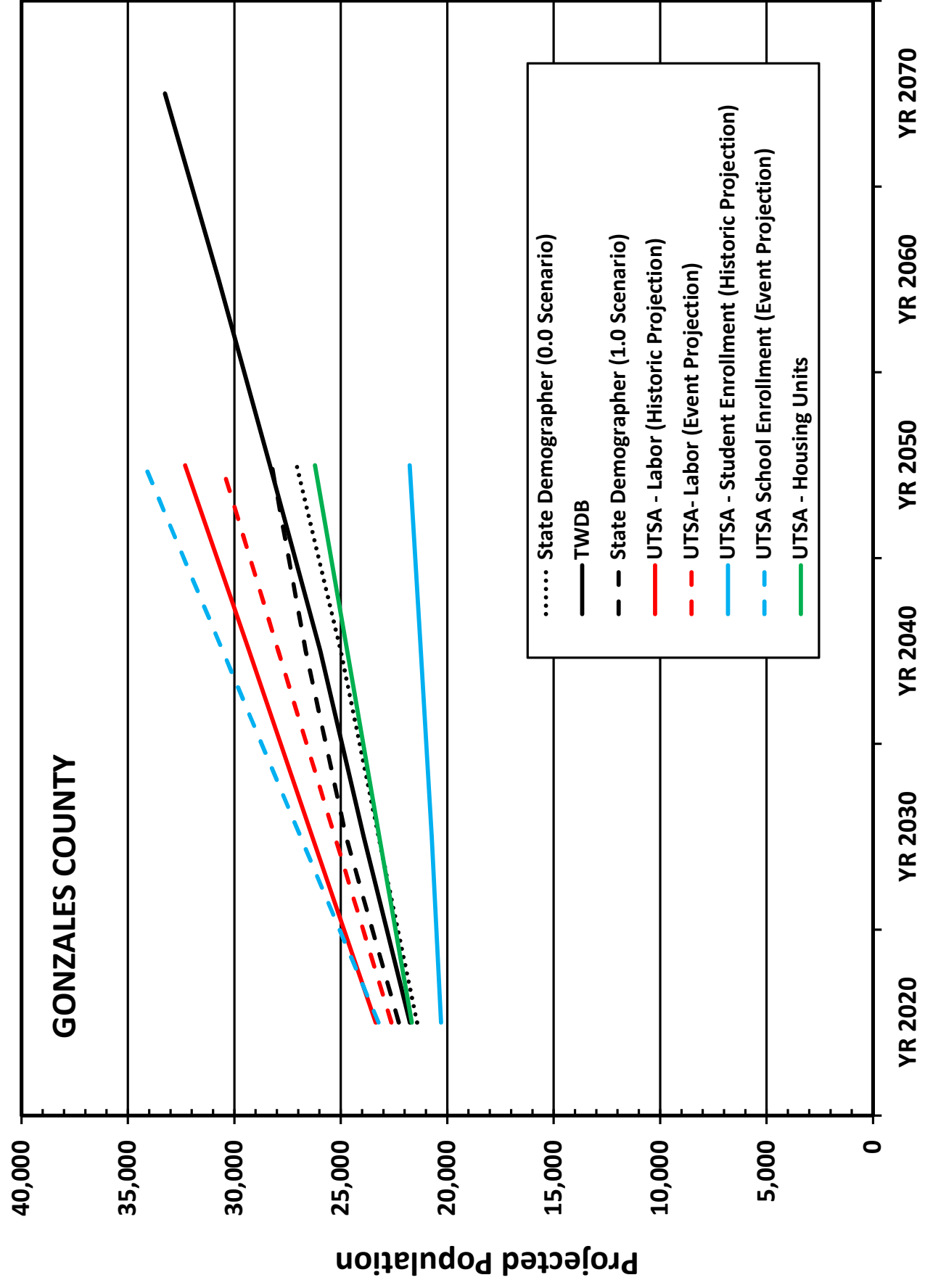
DEWITT COUNTY



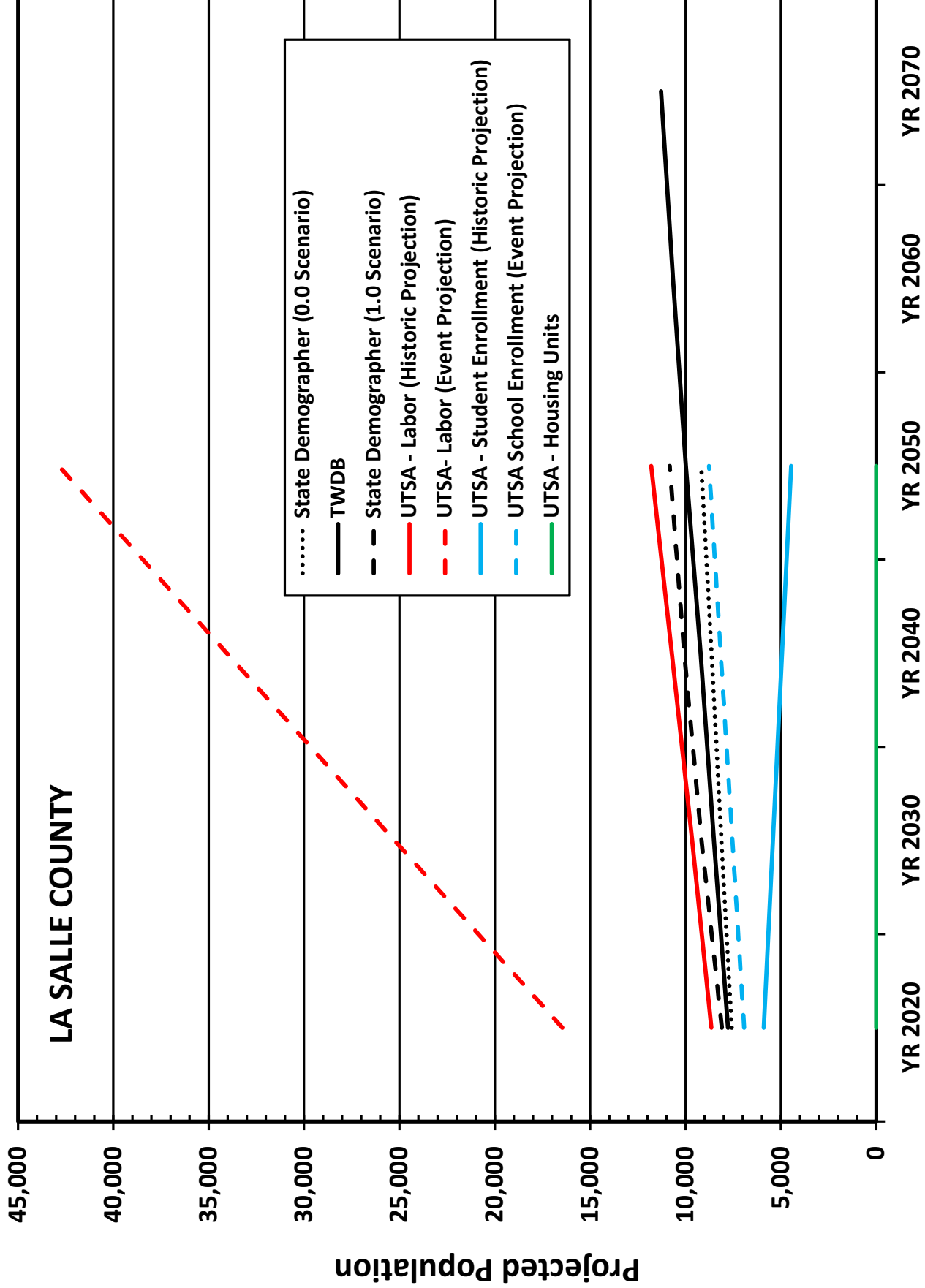
GOLIAD COUNTY

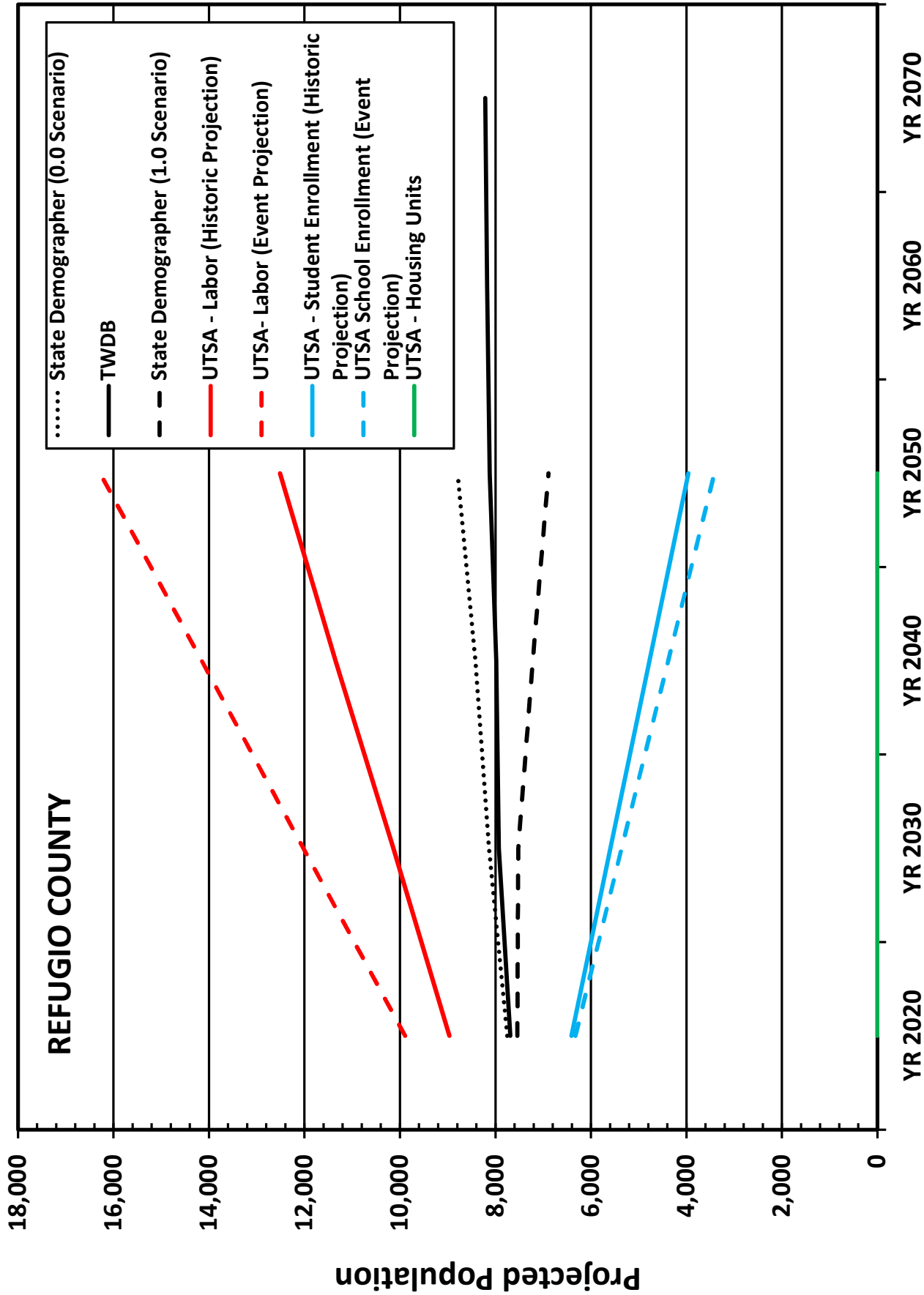


GONZALES COUNTY

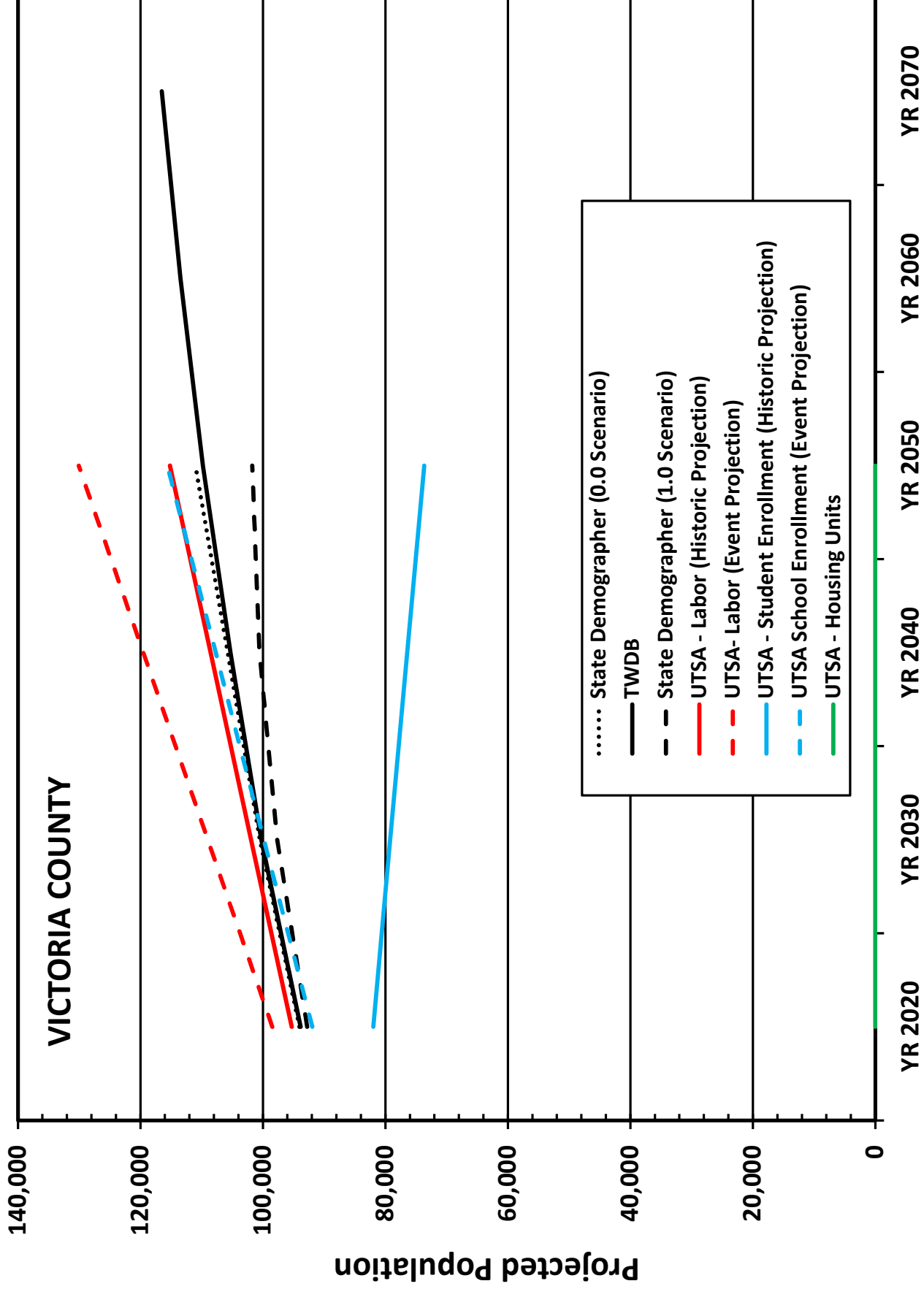


LA SALLE COUNTY



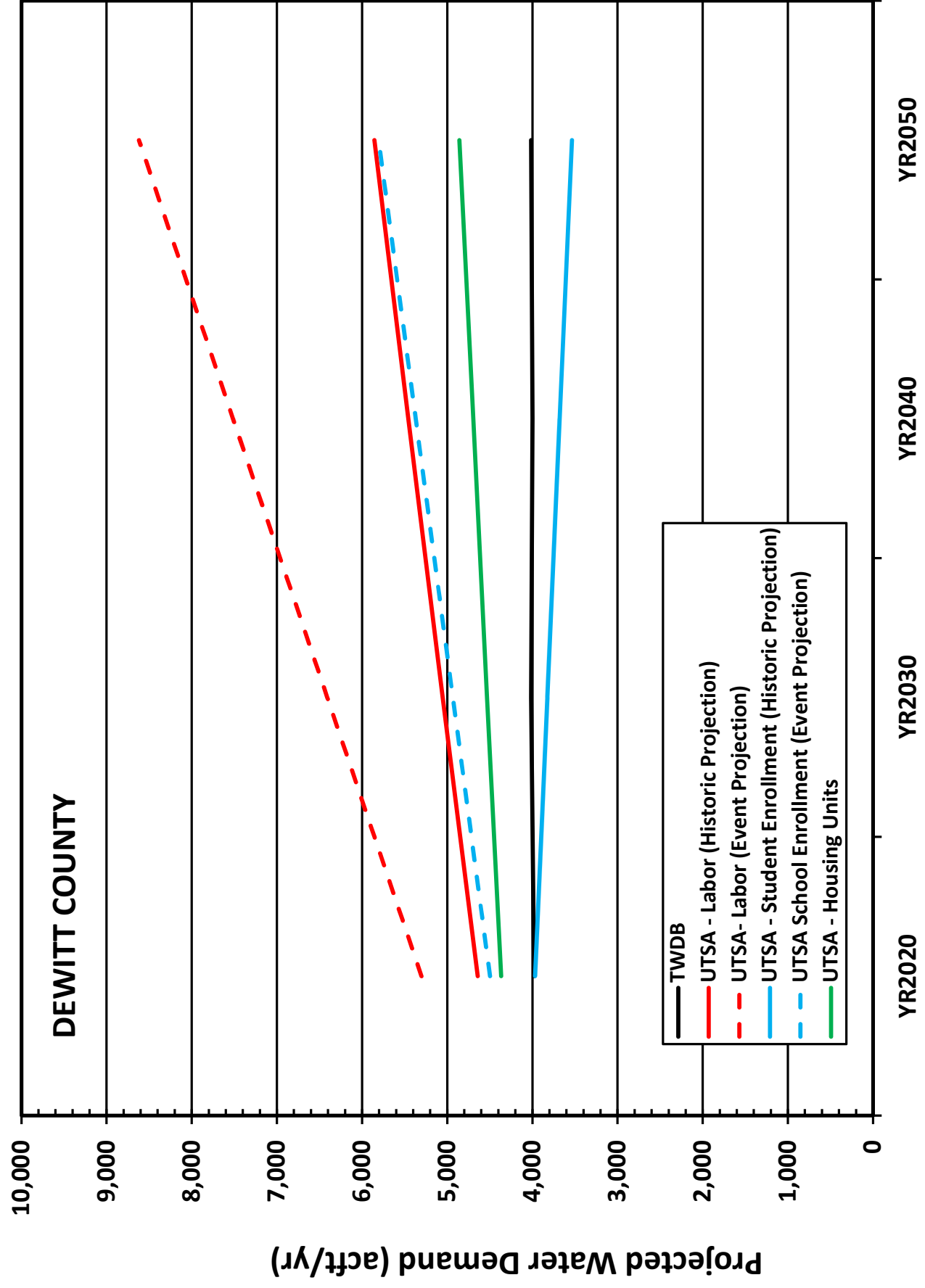


VICTORIA COUNTY

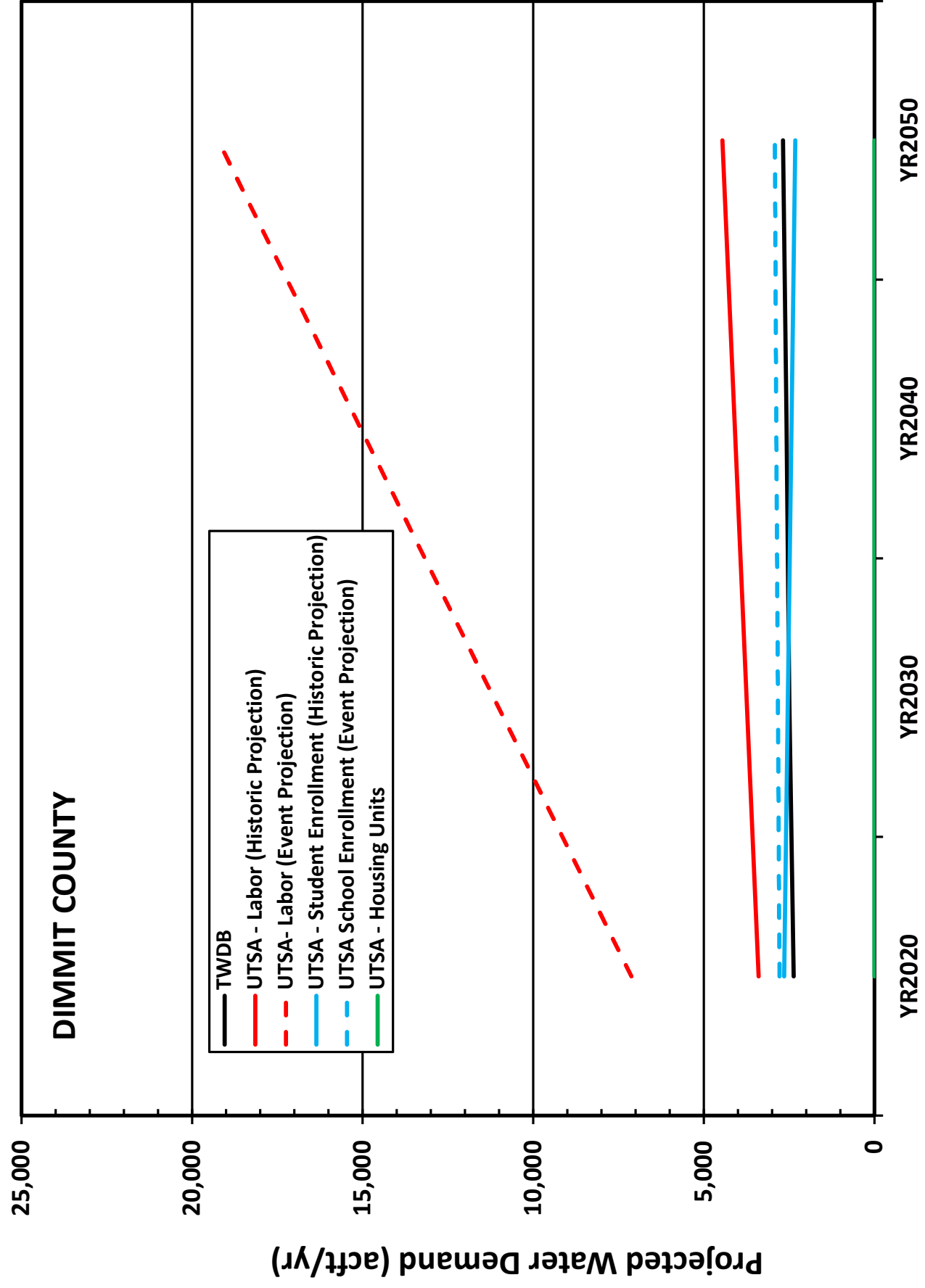


Appendix B
Water Demand Projection Comparisons

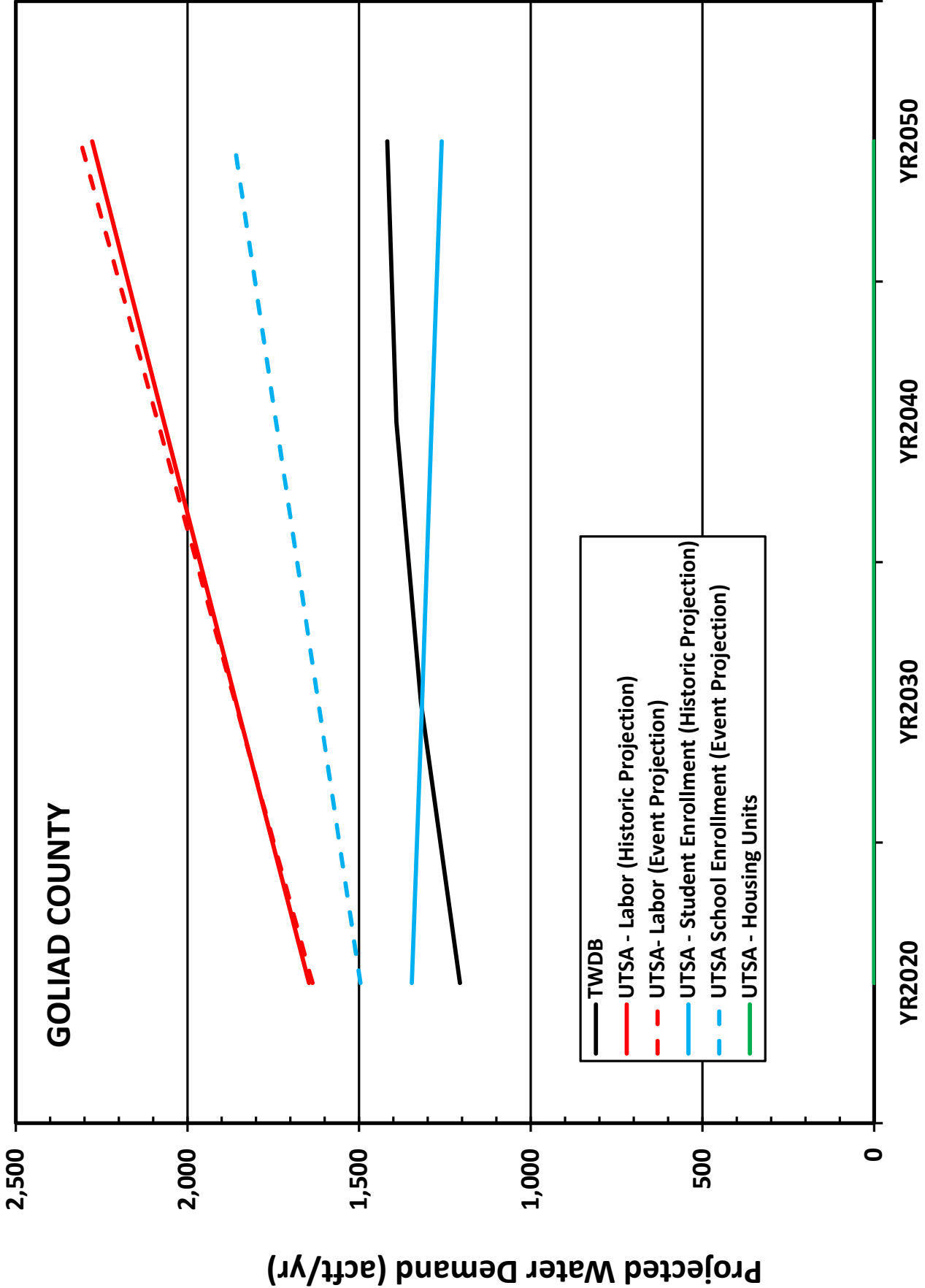
DEWITT COUNTY



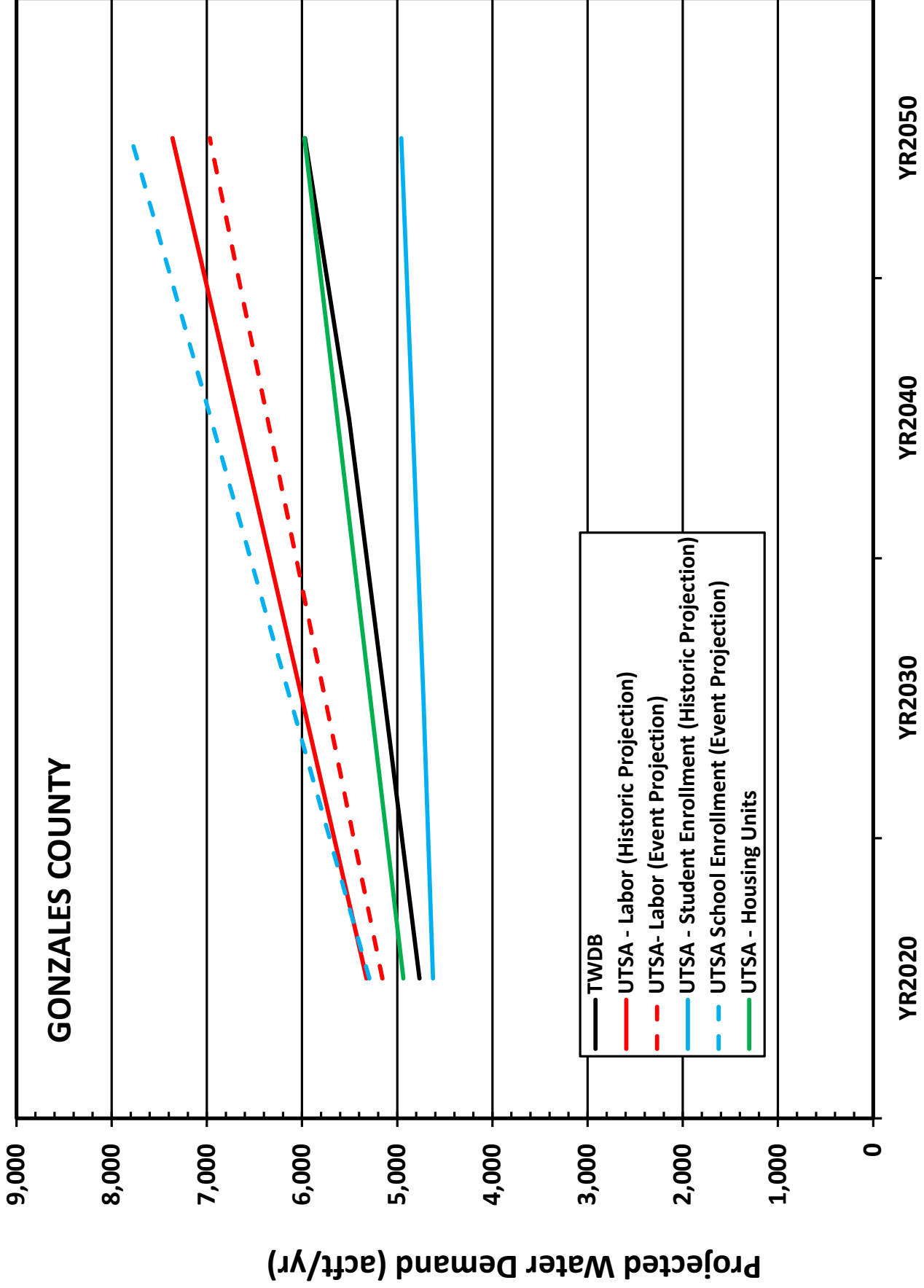
DIMMIT COUNTY



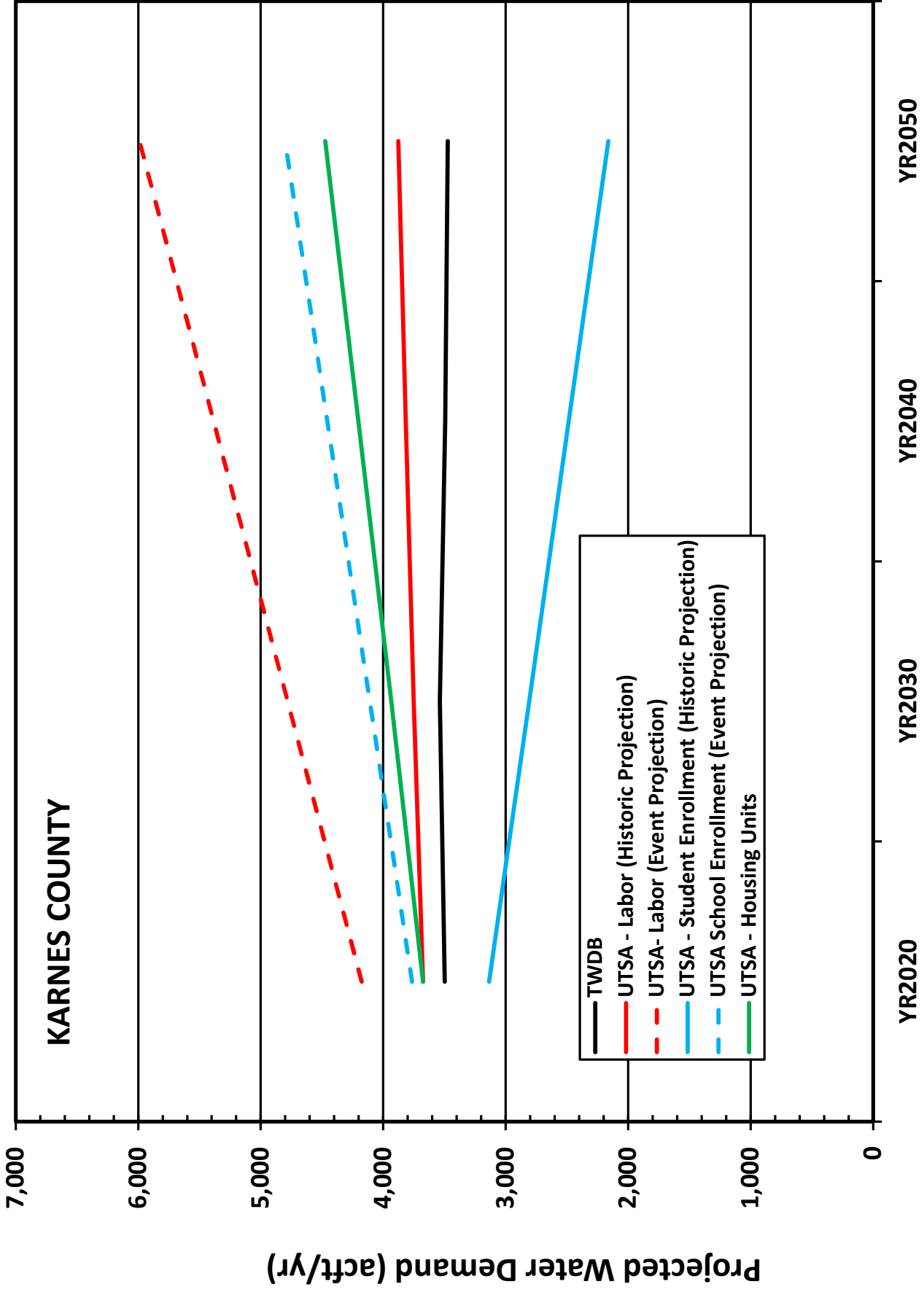
GOLIAD COUNTY



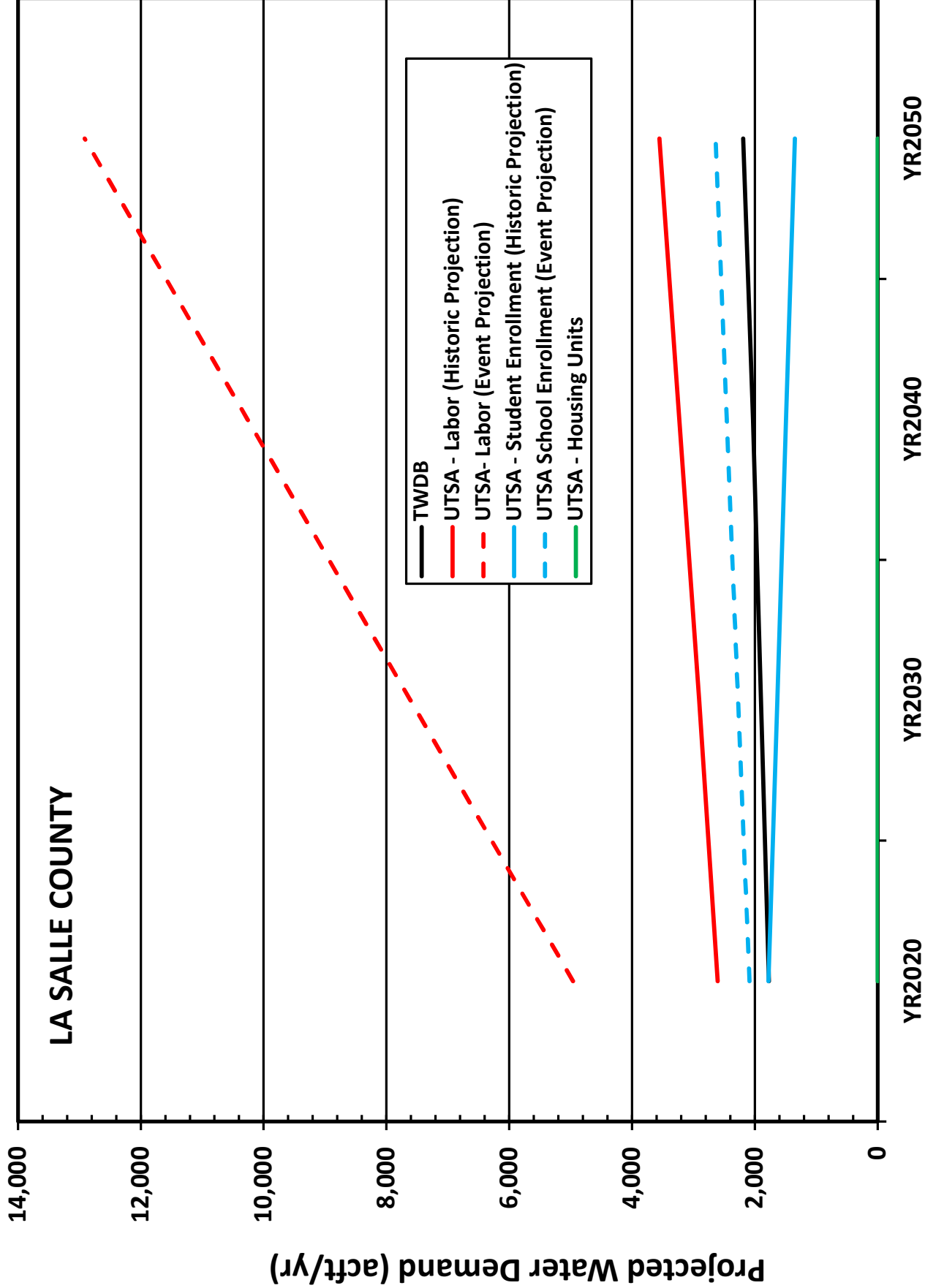
GONZALES COUNTY



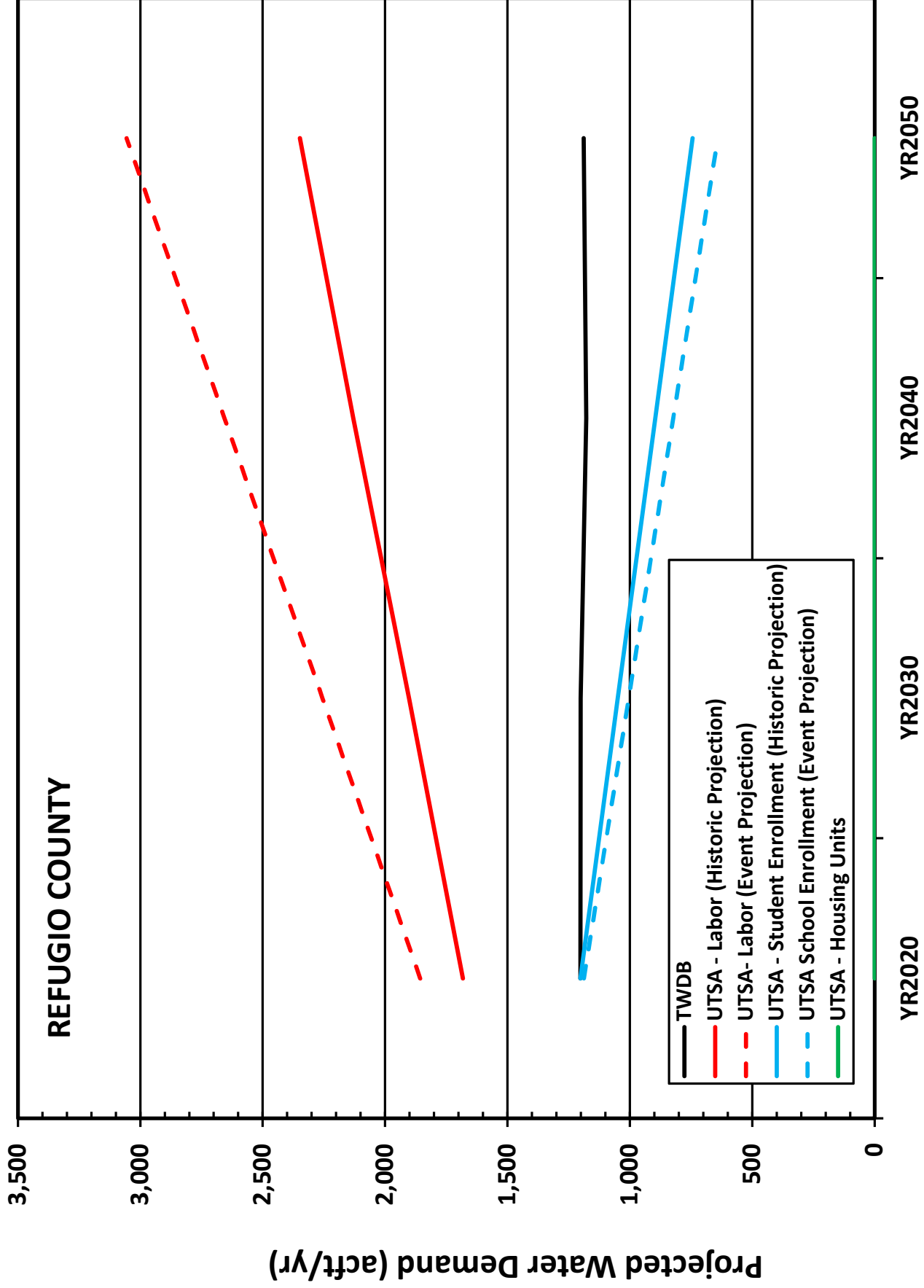
KARNES COUNTY



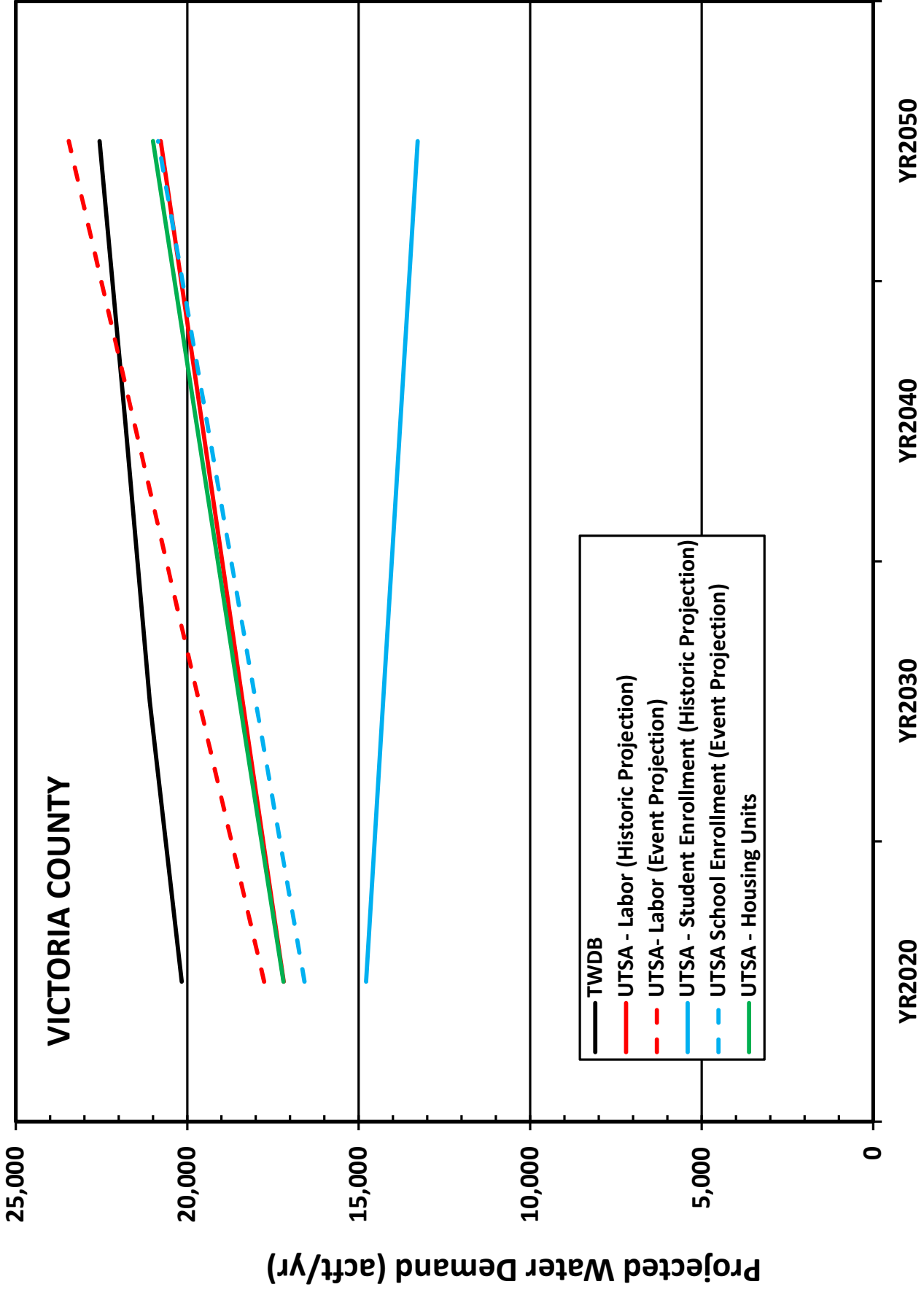
LA SALLE COUNTY



REFUGIO COUNTY



VICTORIA COUNTY



AGENDA ITEM 2

Discussion of HB 4

Erin Newberry

From: Matt Nelson <Matt.Nelson@twdb.texas.gov>
Sent: Wednesday, July 03, 2013 3:28 PM
To: Temple McKinnon; cew@pgcd.us; ccampbell@rra.dst.tx.us; jparks@ntmwd.com; bret.mccoy@edwardjones.com; tombeard@leoncita.com; jgrant@crmwd.org; wlwilson@tconline.net; mevans@nhcrwa.com; kholcomb@anra.org; jletz@co.kerr.tx.us; johnburke41@gmail.com; cmims@nueces-ra.org; glenjarvis@aol.com; cserrato@STWA.org; WSB3@aol.com; jimc@hpwd.com; harrisonstafford@att.net; trodriguez@ci.laredo.tx.us
Cc: kingham@theprpc.org; ccampbell@rra.dst.tx.us; dprichard@rra.dst.tx.us; mfuller@ntmwd.com; netmwd@aol.com; michaela@riocog.org; annetteg@riocog.org; krubio@crmwd.org; trey.buzbee@brazos.org; jhouston@sjra.net; lfuller@ci.nacogdoches.tx.us; jgrinstead@co.kerr.tx.us; rbuck@ugra.org; krystal.cantu@lcra.org; karen.bondy@lcra.org; david.wheelock@lcra.org; terry.zrubek@lcra.org; Steve Raabe; Erin Newberry; dmorales@lrgvdc.org; knjones@lrgvdc.org; rfreund@nueces-ra.org; sherry.stephens@hpwd.com; kgregory@lnra.org; Lann Bookout; Connie Townsend; Doug Shaw; Dan Hardin; David Meeseey; Dan Hardin; Kevin Kluge; kurtzcp@bv.com
Subject: Follow-up to the June 2nd RWPG Chair Conf Call
Attachments: 20130702 HB 4 Criteria for Developing Prioritization Standards.docx

Everyone,

Thanks again to those who participated in yesterday's call. It was a good turnout and we always appreciate your feedback and comments.

As Dan mentioned on the call, everyone needs to at least begin to think about the prioritization process; including both the specific standards for ranking projects relative to each other but also about the process and logistics of working to that end as a Stakeholder Committee. As requested, please send Dan any ideas or initial thoughts you may have regarding either of those themes.

As requested, I've attached a stripped down set of the House Bill 4 criteria that are to be used by the RWPGs and by TWDB in developing the project prioritization standards. Based on this bare-bones list and your initial feedback this summer we will begin to collect ideas for potential discussion by the Stakeholder Committee.

TWDB staff stands ready to support you in setting up conference calls and face-to-face meetings and in preparing any documents/agendas that may be necessary to facilitate the Stakeholder Committee development and documentation of the prioritization standards.

The State Water Implementation Fund for Texas (SWIFT) timelines that Con mentioned during the call are available at:

<http://www.twdb.state.tx.us/newsmedia/swift/index.asp>

(Note that staff has since made a couple of corrections to that timeline.)

Finally, we will send out proposed September conference call dates/times once we have a better idea of when our new Board will first meet. As always, feel free to suggest agenda items for these calls as they are for your benefit.

Thanks,
Matt Nelson

Manager, Regional Water Planning
Texas Water Development Board
| 512 | 936.3550

House Bill 4 criteria to be used in developing prioritization of water plan projects

As excerpted from House Bill 4, 83rd Texas Legislature:

Sec. 15.436. PRIORITIZATION OF PROJECTS BY REGIONAL WATER PLANNING GROUPS.

- (a) Each regional water planning group shall prioritize projects in its respective regional water plan for the purposes of Section 15.435. At a minimum, a regional water planning group must consider the following criteria in prioritizing each project:
- (1) the decade in which the project will be needed;**
 - (2) the feasibility of the project, including the availability of water rights for purposes of the project and the hydrological and scientific practicability of the project;**
 - (3) the viability of the project, including whether the project is a comprehensive solution with a measurable outcome;**
 - (4) the sustainability of the project, taking into consideration the life of the project; and**
 - (5) the cost-effectiveness of the project, taking into consideration the expected unit cost of the water to be supplied by the project.**
- (b) In prioritizing projects, each regional water planning group shall include projects that meet long-term needs as well as projects that meet short-term needs.
- (c) The board shall create a stakeholders committee composed of the presiding officer or a person designated by the presiding officer of each regional water planning group to establish uniform standards to be used by the regional water planning groups in prioritizing projects under this section. Uniform standards established under this subsection must be approved by the board. The board shall consult the stakeholders committee from time to time regarding regional prioritization of projects.
- (d) Each regional water planning group shall submit to the board the prioritization developed by the group under this section together with the group's respective regional water plan developed and submitted under Section 16.053.

Sec. 15.437. PRIORITIZATION OF PROJECTS BY BOARD.
--

- (a) The board shall prioritize projects included in the state water plan for the purpose of providing financial assistance under this subchapter.
- (b) The board shall establish a point system for prioritizing projects for which financial assistance is sought from the board. The system must include a standard for the board to apply in determining whether a project qualifies for financial assistance at the time the application for financial assistance is filed with the board.
- (c) The board shall give the highest consideration in awarding points to projects that will have a substantial effect, including projects that will:
 - (1) serve a large population;**
 - (2) provide assistance to a diverse urban and rural population;**
 - (3) provide regionalization; or**
 - (4) meet a high percentage of the water supply needs of the water users to be served by the project.**
- (d) In addition to the criteria provided by Subsection (c), the board must also consider at least the following criteria in prioritizing projects:
 - (1) the local contribution to be made to finance the project, including the up-front capital to be provided by the applicant;**
 - (2) the financial capacity of the applicant to repay the financial assistance provided;**
 - (3) the ability of the board and the applicant to timely leverage state financing with local and federal funding;**
 - (4) whether there is an emergency need for the project, taking into consideration whether:**
 - (A) the applicant is included at the time of the application on the list maintained by the commission of local public water systems that have a water supply that will last less than 180 days without additional rainfall; and
 - (B) federal funding for which the project is eligible has been used or sought;
 - (5) if the applicant is applying for financial assistance for the project under Subchapter Q, whether the applicant is ready to proceed with the project at the time of the application, including whether:**
 - (A) all preliminary planning and design work associated with the project has been completed;
 - (B) the applicant has acquired the water rights associated with the project;
 - (C) the applicant has secured funding for the project from other sources; and
 - (D) the applicant is able to begin implementing or constructing the project;
 - (6) the demonstrated or projected effect of the project on water conservation, including preventing the loss of water, taking into consideration, if applicable, whether the applicant has filed a water audit with the board under Section 16.0121 that demonstrates that the applicant is accountable with regard to reducing water loss and increasing efficiency in the distribution of water; and**
 - (7) the priority given the project by the applicable regional water planning group under Section 15.436.**

AGENDA ITEM 3

Status of Technical Consultants Work and Schedule

- a. Schedule and Budget Update
- b. Review requested revisions to draft population and water demand projections, including EFS Work Group final recommendation for submittal to TWDB
- c. Update on results from existing supply analyses (surface water, groundwater, and reuse water) for WUGs and WWP
- d. Updated draft needs analyses, based on the draft water demand projections and existing supply analyses for WUGs and WWP
- e. Review updated draft WMSs by WUG/WWP, to be included in Phase 2 of the survey
- f. Review of draft scopes and budgets for 12 WMS:
 - Wells Ranch – Phase 2 (CRWA and Others)
 - Brackish Wilcox for the RWA (CRWA and Others)
 - Hays/Caldwell PUA – Phases 1 & 2 (San Marcos, Buda, Kyle, CRWA)
 - CRWA Siesta Project (CRWA)
 - Brackish Wilcox for SAWS
 - Expanded Local Carrizo – Bexar County (SAWS)
 - Brackish-Wilcox, Gonzales County (SSLGC)

Texas Water Alliance Carrizo Well Field, Gonzales
County (TWA)
Carrizo Aquifer, Wilson County (Cibolo Valley Local
Government Corp)
GBRA Mid-Basin Project and Alternatives (GBRA)
GBRA Lower Basin Off-Channel Reservoir (GBRA)
GBRA Lower Basin New Appropriation (GBRA)

- g. Review list of potentially feasible water management strategies for authorization to begin draft scopes of work and budget at August meeting

AGENDA ITEM 4

Review Agenda for August 1, 2013 Planning Group Meeting

DRAFT
NOTICE OF OPEN MEETING OF THE
SOUTH CENTRAL TEXAS REGIONAL
WATER PLANNING GROUP

TAKE NOTICE that a meeting of the South Central Texas Regional Water Planning Group as established by the Texas Water Development Board will be held on Thursday, August 1st, 2013 at 10:00 a.m. at San Antonio Water System (SAWS), Customer Service Building, Room CR 145, 2800 US Highway 281 North, San Antonio, Bexar County, Texas. The following subjects will be considered for discussion and/or action at said meeting.

1. Public Comment
2. Approval of Minutes
3. Chair's Report (HB4 Discussion?)
4. Status of Edwards Aquifer Habitat Conservation Plan (HCP)
5. Status of Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC) and Expert Science Team (BBEST) and Nueces River and Corpus Christi and Baffin Bays Stakeholder Committee (BBASC) and Expert Science Team (BBEST)
6. Discussion and Appropriate Action Regarding Nominations to Fill Voting Member Vacancies
7. Texas Water Development Board (TWDB) Communications
8. Discussion and Appropriate Action Regarding Consultants Work and Schedule
9. Discussion and Appropriate Action Regarding Appointment of ? to Work with TWDB to Negotiate/Resolve Any Issues Regarding Final Projections (Municipal and Non-Municipal?)
10. Discussion and Appropriate Action Regarding Draft Water Needs, Initial List of Water Management Strategies, and Drought Response Mail-Out to Water User Groups (WUG) and Wholesale Water Providers (WWP) (Tasks 4A & 4B)
11. Discussion and Appropriate Action Regarding Evaluation of Potentially Feasible Water Management Strategies (Task 4B), Draft Scopes of Work and Budgets for Submittal to TWDB and Inclusion into Planning Contract, TWDB Contract No. 1148301323 (Task 4D)

12. Discussion and Appropriate Action Regarding Authorizing Political Subdivision to Submit Request for Notice-to-Proceed for Evaluation of Twelve Water Management Strategies and Authorize Administrator to Execute Contract Amendment with TWDB
13. Possible Agenda Items for the Next South Central Texas Regional Water Planning Group Meeting
14. Public Comment

The South Central Texas Regional Water Planning Area consists of Atascosa, Bexar, Caldwell, Calhoun, Comal, Dewitt, Dimmit, Frio, Goliad, Gonzales, Guadalupe, Karnes, Kendall, La Salle, Medina, Refugio, Uvalde, Victoria, Wilson, Zavala and part of Hays Counties.

www.RegionLTexas.org